

Kentucky Department for Public Health

Weekly Influenza Surveillance Report

Morbidity and Mortality Weekly Report (MMWR) Week 50

December 9 – December 15, 2018



Current Influenza Activity Level: [†]**REGIONAL**

[†] **Regional:** Outbreaks of influenza *or* increases in ILI *and* recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.

***Confirmed:** Influenza laboratory Confirmed Cases are defined by positive molecular virus (RT-PCR) or Virus Culture test results. Those positive test results are reportable in Kentucky. (Positive results for Rapid Influenza Diagnostic Tests are not included in this report).

Influenza-like Illness (ILI) Case Definition:

- Fever ($\geq 100^{\circ}\text{F}$ [37.8°C], oral or equivalent, PLUS Cough
-OR-
- Fever ($\geq 100^{\circ}\text{F}$ [37.8°C], oral or equivalent, PLUS Sore Throat
-OR-
- Fever ($\geq 100^{\circ}\text{F}$ [37.8°C], oral or equivalent, PLUS Cough *and* Sore Throat

Activity Level Range: Sporadic Local Regional Widespread

Update for week 50:		Updated Total 2018-2019 Season:	
Lab Confirmed Influenza:	82 Cases	Lab Confirmed Total:	299 Cases
Number of Regions with Long Term Care Facility Outbreaks:	0 of 17 Regions	Total Number of Long Term Care Facility Outbreaks:	1 Outbreak
Number of Regions with Confirmed Flu Cases:	10 of 17 Regions	Total Number of Regions with Confirmed Flu Cases:	16 of 17 Regions
Deaths Reported:	0 (under 18 years) 0 (18 years & older)	Total Deaths Reported:	0 (under 18 years) 2 (18 years & older)
Number of Regions with Increased ILI Activity:	12 of 17 Regions	Number of Regions with ILI Activity this Flu Season:	16 of 17 Regions
Number of Regions with Increased Influenza Activity:	6 of 17 Regions		

****All data are preliminary and may change as more delayed reports are received**

Kentucky National Electronic Disease Surveillance System (NEDSS) and U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) Data. Department for Public Health, Cabinet for Health and Family Services, Frankfort, Kentucky, [December 9 – December 15, 2018].

Weekly Influenza Surveillance Report

MMWR Week 50: December 9 – December 15, 2018

Fig 1: Laboratory Confirmed Cases by Age

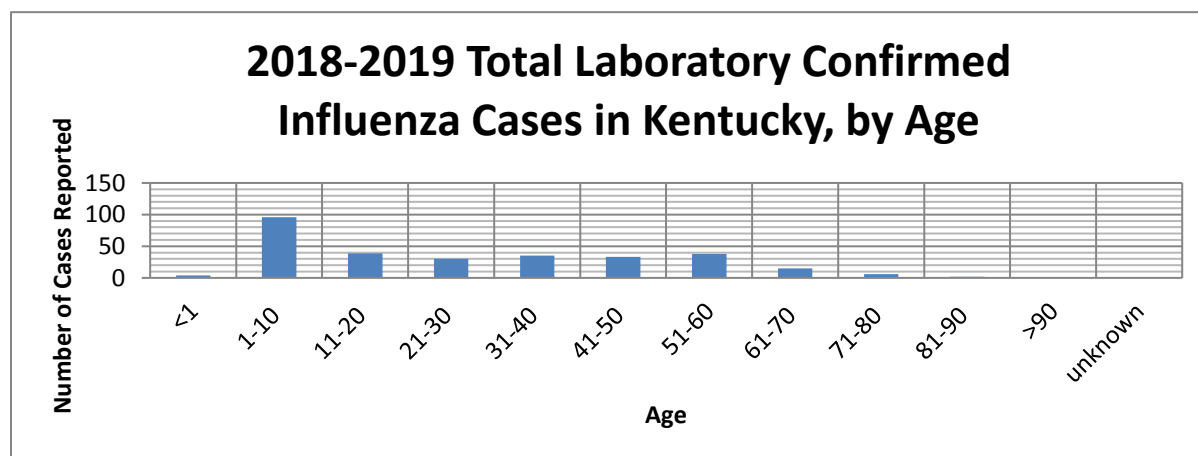


Fig 2: Laboratory Confirmed Cases by Influenza Virus Types

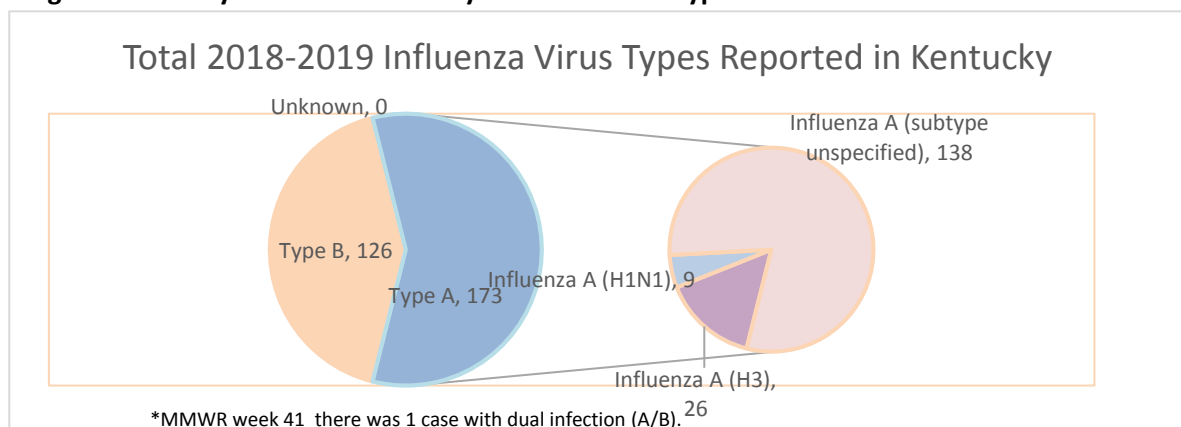
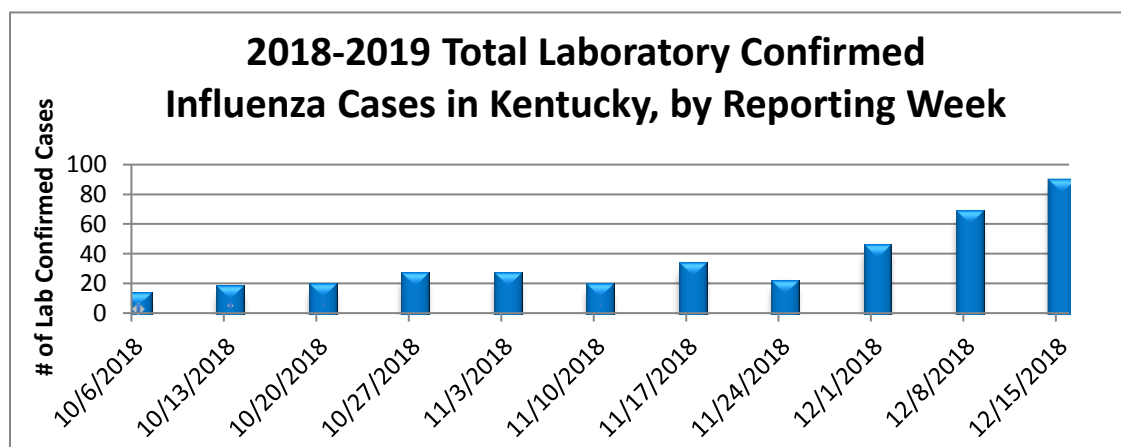
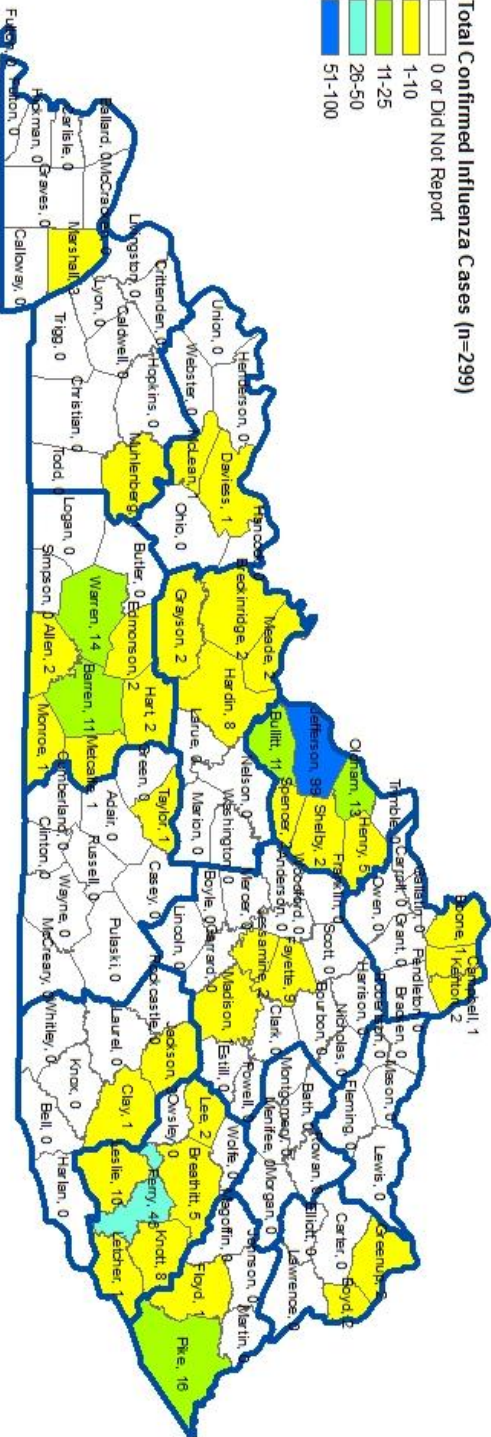


Fig 3: 2018-2019 Total Laboratory Confirmed Influenza Cases in Kentucky, by Reporting Week



*Confirmed: Influenza laboratory Confirmed Cases are defined by positive RT-PCR or Virus Culture test results

MMWR Weeks 40-50

Kentucky Immunization Program
December 20, 2018



National Data

2018-2019 Influenza Season

Week 49 ending December 8, 2018

All data are preliminary and may change as more reports are received.

**Week 50 will be available December 27th.*

Synopsis:

Influenza activity in the United States remained slightly elevated. Influenza A(H1N1)pdm09, influenza A(H3N2), and influenza B viruses continue to co-circulate, with influenza A(H1N1)pdm09 viruses reported most commonly by public health laboratories since September 30, 2018. Below is a summary of the key influenza indicators for the week ending December 8, 2018:

- **Viral Surveillance:** Influenza A viruses have predominated in the United States since the beginning of October. The percentage of respiratory specimens testing positive for influenza in clinical laboratories remains low.
 - **Virus Characterization:** The majority of influenza viruses characterized antigenically and genetically are similar to the cell-grown reference viruses representing the 2018–2019 Northern Hemisphere influenza vaccine viruses.
 - **Antiviral Resistance:** All viruses tested show susceptibility to the neuraminidase inhibitors (oseltamivir, zanamivir, and peramivir).
- **Influenza-like Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) remained at 2.2%, which is at the national baseline of 2.2%. Five of 10 regions reported ILI at or above their region-specific baseline level.
 - **ILI State Activity Indicator Map:** One state experienced high ILI activity; Puerto Rico and four states experienced moderate ILI activity; New York City, the District of Columbia and nine states experienced low ILI activity; and 36 states experienced minimal ILI activity.
- **Geographic Spread of Influenza:** The geographic spread of influenza in three states was reported as widespread; 10 states reported regional activity; 21 states reported local activity; the District of Columbia, Puerto Rico, the U.S. Virgin Islands and 16 states reported sporadic activity; and Guam did not report.
- **Influenza-associated Hospitalizations:** A cumulative rate of 1.9 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported.
- **Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.
- **Influenza-associated Pediatric Deaths:** One influenza-associated pediatric death was reported to CDC for week 49.

Weekly U.S. Influenza Surveillance Report. Centers for Disease Control and Prevention.

<https://www.cdc.gov/flu/weekly/index.htm>, Retrieved: 12/20/2018.